

AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions and listings of claims in the application.

LISTING OF CLAIMS:

1. (Currently Amended) A method performed by a controller that monitors and/or controls an apparatus, the method comprising:

initiating communication with polling a server by sending a message to the server periodically, the message containing information that distinguishes the apparatus from other like apparatuses, the message for establishing a connection between the server and the controller through which the instructions are sent comprising a hypertext transfer protocol (HTTP) message;

receiving, from the server and in response to the message, one or more of plural instructions that are supported by the controller data that is specific to the apparatus; and using the data one or more of the instructions to affect at least one of:

a configuration of the apparatus in response to an instruction that is configured to affect the configuration of the apparatus,

an operation of the apparatus in response to an instruction that is configured to affect the operation of the apparatus, and

an operation of the controller in response to an instruction that is configured to affect the operation of the controller;

wherein, due to network addressing architecture, the server cannot initiate

communication to the controller to send ~~the data~~ instructions to the controller.

2. (Currently Amended) The method of claim 1, wherein the message comprises an operational parameter for the apparatus and ~~the data~~ at least one of the instructions comprises an updated value for the operational parameter.

3. (Currently Amended) The method of claim 2, wherein the message comprises plural operational parameters for the apparatus and ~~the data~~ at least one of the instructions comprises updated values that differ from current values of the operational parameters.

4. (Cancelled)

5. (Currently Amended) The method of claim 1, wherein ~~the data~~ at least one of the instructions comprises a list of operations to be performed by the controller; and using ~~the data~~ one or more of the instructions comprises:

parsing the operations from the list; and

performing the operations from the list.

6. (Currently Amended) The method of claim 1, wherein ~~the data~~ at least one of the instructions comprises a configuration file for the apparatus.

7. (Previously Presented) The method of claim 1, wherein the message identifies the

apparatus by a type and/or one or more of a serial number and a universal unique identifier.

8. (Currently Amended) The method of claim 1, wherein the message comprises a hypertext transfer protocol (HTTP) message controller sends messages to the server periodically.

9. (Currently Amended) The method of claim [[1]] 8, wherein the message comprises an HTTP command that contains Extensible Markup Language code.

10. (Currently Amended) A method performed by a server for sending data instructions over a network to a controller that monitors and/or controls an apparatus, the method comprising: receiving a message from the controller periodically, the message containing information that distinguishes the apparatus from other like apparatuses, the message for establishing a connection between the server and the controller through which instructions are sent comprising a hypertext transfer protocol (HTTP) message;

identifying the apparatus from the information in the message, the information distinguishing the apparatus from other apparatuses;

retrieving data one or more instructions that is are specific to the apparatus, the one or more instructions comprising one or more of plural instructions that are supported by the controller; and

sending the data the one or more instructions from the server to the controller, the data one or more instructions for affecting at least one of:

a configuration of the apparatus in response to an instruction that is configured to

affect the configuration of the apparatus,

an operation of the apparatus in response to an instruction that is configured to affect the operation of the apparatus, and

an operation of the controller in response to an instruction that is configured to affect the operation of the controller;

wherein, due to network addressing architecture, the server cannot initiate communication to the controller to send the data instructions to the controller.

11. (Currently Amended) The method of claim 10, wherein:

the information in the message comprises a type and/or one or more of a serial number and a universal unique identifier; and

the apparatus is identified based on the type and/or one or more of the serial number and the universal unique identifier.

12. (Previously Presented) The method of claim 11, further comprising:

parsing the type and one or more of the serial number and universal unique identifier from the message prior to identifying the apparatus.

13. (Currently Amended) The method of claim 10, wherein:

the message comprises an operational parameter for the device; and

the data one or more instructions comprises an updated value of the operational parameter.

14. (Cancelled)

15. (Currently Amended) The method of claim 10, wherein the data one or more instructions comprises a list of operations to be performed by the apparatus.

16. (Currently Amended) The method of claim 10, wherein the data one or more instructions comprises a configuration file for the apparatus.

17. (Currently Amended) The method of claim 10, further comprising:

receiving the data specific to the apparatus; and

storing the data in memory as part of the plural instructions;

wherein the data is one or more instructions are retrieved from the memory.

18. (Previously Presented) The method of claim 17, wherein the data specific to the apparatus is received via a Web page generated by the server.

19. (Currently Amended) The method of claim 10, wherein the message comprises an HTTP a hypertext transfer protocol (HTTP) command that contains Extensible Markup Language (XML) code.

20. (Currently Amended) A system comprising:

a controller that monitors and/or controls an apparatus, the controller being capable of communicating over a computer network; and

a server that is capable of communicating over the computer network;

wherein (A) the controller ~~initiates communication with~~ polls the server periodically by sending a message to the server over the computer network, the message for establishing a connection between the server and the controller through which the instructions are sent ~~comprising a hypertext transfer protocol (HTTP) message~~, the message containing information that distinguishes the apparatus from other like apparatuses; and, in response to the message, (B) the server (i) identifies the apparatus based on the information in the message, (ii) retrieves one or more of plural instructions that are supported by the controller ~~data that is specific to the apparatus~~, and (iii) sends the data one or more instructions to the controller over the computer network, the data one or more instructions for affecting at least one of:

a configuration of the apparatus in response to an instruction that is configured to affect the configuration of the apparatus,

an operation of the apparatus in response to an instruction that is configured to affect the operation of the apparatus, and

an operation of the controller in response to an instruction that is configured to affect the operation of the controller;

wherein, due to network addressing architecture, the server cannot initiate communication to the controller to send the data instructions to the controller.

21. (Previously Presented) The system of claim 20, wherein the server cannot initiate

communication to the controller because the controller is not addressable from the computer network.

22. (Original) The system of claim 20, wherein the computer network comprises the Internet.

23. (Currently Amended) The system of claim 20, wherein the message comprises an HTTP a hypertext transfer protocol (HTTP) command that contains Extensible Markup Language (XML) code.

24. (Currently Amended) A computer program stored on one or more machine-readable media, the computer program being executable by a controller that monitors and/or controls an apparatus, the computer program comprising instructions code to that cause the controller to: initiate communication with poll a server by sending a message to the server periodically, the message comprising a hypertext transfer protocol (HTTP) message, the message containing information that distinguishes the apparatus from other like apparatuses, the message for establishing a connection between the server and the controller through which the instructions are sent;

receive, from the server and in response to the message, one or more of plural instructions that are supported by the controller data that is specific to the apparatus; and use the data one or more of the instructions to affect at least one of: a configuration of the apparatus in response to an instruction that is configured to

affect the configuration of the apparatus,
an operation of the apparatus in response to an instruction that is configured to
affect the operation of the apparatus, and
an operation of the controller in response to an instruction that is configured to
affect the operation of the controller;
wherein, due to network addressing architecture, the server cannot initiate
communication to the controller to send the data instructions to the controller.

25. (Currently Amended) The computer program of claim 24, wherein the message
comprises an operational parameter for the apparatus and the data at least one of the instructions
comprises an updated value for the operational parameter.

26. (Currently Amended) The computer program of claim 25, wherein the message
comprises plural operational parameters for the apparatus and the data at least one of the
instructions comprises updated values that differ from current values of the operational
parameters.

27. (Cancelled)

28. (Currently Amended) The computer program of claim 24, wherein the data at least
one of the instructions comprises a list of operations to be performed by the controller; and
wherein using the data at least one of the instructions comprises:

parsing the operations from the list; and
performing the operations from the list.

29. (Currently Amended) The computer program of claim 24, wherein at least one of the instructions ~~the~~ data comprises a configuration file for the apparatus.

30. (Currently Amended) The computer program of claim 24, wherein the information ~~in the~~ message identifies the apparatus by a type and/or one or more of a serial number and a universal unique identifier.

31. (Currently Amended) The computer program of claim 24, wherein the message ~~comprises a hypertext transfer protocol (HTTP) message controller sends messages to the server periodically.~~

32. (Currently Amended) The computer program of claim 24, wherein the message comprises ~~an HTTP~~ a hypertext transfer protocol (HTTP) command that contains Extensible Markup Language (XML) code.

33. (Currently Amended) A computer program stored on one or more machine-readable media, the computer program being executable by a server to send data instructions over a network to a controller that monitors and/or controls an apparatus, the computer program comprising instructions ~~code to~~ that cause the server to:

receive a message from the controller periodically, the message containing information that distinguishes the apparatus from other like apparatuses, the message for establishing a connection between the server and the controller through which instructions are sent comprising a hypertext transfer protocol (HTTP) message;

identify the apparatus from the information in the message, the information distinguishing the apparatus from other apparatuses;

retrieve data one or more instructions that is are specific to the apparatus, the one or more instructions comprising one or more of plural instructions that are supported by the controller;
and

send the data one or more instructions to the controller, the data one or more instructions for affecting at least one of:

a configuration of the apparatus in response to an instruction that is configured to affect the configuration of the apparatus,

an operation of the apparatus in response to an instruction that is configured to affect the operation of the apparatus, and

an operation of the controller in response to an instruction that is configured to affect the operation of the controller;

wherein, due to network addressing architecture, the server cannot initiate communication to the controller to send the data instructions to the controller.

34. (Currently Amended) The computer program of claim 33, wherein:

the information in the message comprises a type and/or one or more of a serial number

and a universal unique identifier; and

the apparatus is identified based on the type and/or one or more of the serial number and the universal unique identifier.

35. (Currently Amended) The computer program of claim 34, further comprising instructions that cause code to cause the server to:

parse the type and one or more of the serial number and universal unique identifier from the message prior to identifying the apparatus.

36. (Currently Amended) The computer program of claim 33, wherein:
the message comprises an operational parameter for the apparatus; and
the data one or more instructions comprises an updated value of the operational parameter.

37. (Cancelled)

38. (Currently Amended) The computer program of claim 33, wherein the data one or more instructions comprises a list of operations to be performed by the apparatus.

39. (Currently Amended) The computer program of claim 33, wherein the data one or more instructions comprises a configuration file for the apparatus.

40. (Currently Amended) The computer program of claim 33, further comprising instructions that cause code to cause the server to:

receive the data specific to the apparatus; and

store the data in memory as part of the plural instructions;

wherein the data is one or more instructions are retrieved from the memory.

41. (Previously Presented) The computer program of claim 40, wherein the data specific to the apparatus is received via a Web page generated by the server.

42. (Currently Amended) The computer program of claim 33, wherein the message comprises an HTTP a hypertext transfer protocol (HTTP) command that contains Extensible Markup Language (XML) code.

43. (Currently Amended) A device to monitor and/or control an apparatus, the device comprising:

a controller which executes instructions is configured to execute code to:

initiate communication with poll a server by sending a message to the server periodically, the message comprising a hypertext transfer protocol (HTTP) message, the message containing information that distinguishes the apparatus from other like apparatuses, the message for establishing a connection between the server and the controller through which the instructions are sent;

receive, from the server and in response to the message, one or more of plural

instructions that are supported by the controller data that is specific to the apparatus; and

use the data one or more of the instructions to affect at least one of:

a configuration of the apparatus in response to an instruction that

is configured to affect the configuration of the apparatus,

an operation of the apparatus in response to an instruction that is

configured to affect the operation of the apparatus, and

an operation of the controller in response to an instruction that is

configured to affect the operation of the controller;

wherein, due to network addressing architecture, the server cannot initiate communication to the controller to send the data instructions to the controller.

44. (Currently Amended) The device of claim 43, wherein the message comprises an operational parameter for the apparatus and the data at least one of the instructions comprises an updated value for the operational parameter.

45. (Currently Amended) The device of claim 44, wherein the message comprises plural operational parameters for the apparatus and the data at least one of the instructions comprises updated values that differ from current values of the operational parameters.

46. (Cancelled)

47. (Currently Amended) The device of claim 43, wherein the data at least one of the

instructions comprises a list of operations to be performed by the controller; and

wherein using ~~the data at least one of the~~ instructions comprises:

 parsing the operations from the list; and

 performing the operations from the list.

48. (Currently Amended) The device of claim 43, wherein ~~the data at least one of the~~ instructions comprises a configuration file for the apparatus.

49. (Currently Amended) The device of claim 43, wherein the information in the message identifies the apparatus by a type and/or one or more of a serial number and a universal unique identifier.

50. (Currently Amended) The device of claim 43, wherein the message comprises a hypertext transfer protocol (HTTP) message ~~controller sends messages to the server periodically.~~

51. (Currently Amended) The device of claim 43, wherein the message comprises an HTTP a hypertext transfer protocol (HTTP) command that contains Extensible Markup Language (XML) code.

52. (Currently Amended) A device for sending data over a network to a remote controller that monitors and/or controls an apparatus, the device comprising:
 a local controller ~~which executes instructions configured to execute code to:~~

identify the apparatus from the information in the message, the information distinguishing the apparatus from other apparatuses;
retrieve data one or more instructions that is are specific to the apparatus, the one or more instructions comprising one or more of plural instructions that are supported by the remote controller; and
send the data one or more instructions to the remote controller, the data one or more instructions for affecting at least one of:
a configuration of the apparatus in response to an instruction that is configured to affect the configuration of the apparatus,
an operation of the apparatus in response to an instruction that is configured to affect the operation of the apparatus, and
an operation of the remote controller in response to an instruction that is configured to affect the operation of the controller;
wherein, due to network addressing architecture, the local controller cannot initiate communication to the remote controller to send the data instructions to the controller.

53. (Currently Amended) The device of claim 52, wherein:
the information in the message comprises a type and/or one or more of a serial number and a universal unique identifier; and
the apparatus is identified based on the type and/or one or more of the serial number and the universal unique identifier.

54. (Currently Amended) The device of claim 53, wherein the local controller executes instructions code to:

parse the type and one or more of the serial number and universal unique identifier from the command prior to identifying the apparatus.

55. (Currently Amended) The device of claim 52, wherein:
the message comprises an operational parameter for the apparatus; and
the data one or more instructions comprises an updated value of the operational parameter.

56. (Cancelled)

57. (Currently Amended) The device of claim 52, wherein the data one or more instructions comprises a list of operations to be performed by the apparatus.

58. (Currently Amended) The device of claim 52, wherein the data one or more instructions comprises a configuration file for the apparatus.

59. (Currently Amended) The device of claim 52, wherein:
the local controller executes instructions code to:
receive the data specific to the apparatus; and
store the data in memory as part of the plural instructions.

60. (Previously Presented) The device of claim 59, wherein the data specific to the apparatus is received via a Web page generated by the device.

61. (Currently Amended) The device of claim 52, wherein the message comprises an HTTP a hypertext transfer protocol (HTTP) command that contains Extensible Markup Language (XML) code.

62. (Cancelled)

63. (Previously Presented) The method of claim 1, wherein the server cannot initiate communication because the controller has a network address that the server cannot resolve.

64. (Previously Presented) The method of claim 10, wherein the server cannot initiate communication because the controller has a network address that the server cannot resolve.

65. (Cancelled)

66. (Previously Presented) The system of claim 20, wherein the server cannot initiate communication because the controller has a network address that the server cannot resolve.

67. (Cancelled)

68. (Previously Presented) The computer program of claim 24, wherein the server cannot initiate communication because the controller has a network address that the server cannot resolve.

69. (Previously Presented) The computer program of claim 33, wherein the server cannot initiate communication because the controller has a network address that the server cannot resolve.

70. (Cancelled)

71. (Previously Presented) The device of claim 43, wherein the server cannot initiate communication because the controller has a network address that the server cannot resolve.

72. (Previously Presented) The device of claim 52, wherein the local controller cannot initiate communication because the remote controller has a network address that the local controller cannot resolve.

73. (Currently Amended) A method performed by a controller that monitors and/or controls an apparatus, the method comprising:

polling a server for messages periodically, wherein polling comprises initiating communication with the server by sending a first message to the server, the first message for

identifying the apparatus and for establishing a connection between the server and the controller through which the instructions are sent;

receiving a first reply message from the server in response to the first message, the first reply message identifying a parameter associated with the apparatus; and

sending a second message to the server in response to the first reply message, the second message containing the parameter identified in the first reply message;

receiving a second reply message containing an updated version of the parameter; and
using the updated version of the parameter to affect at least one of:

a configuration of the apparatus if the parameter relates to the
configuration of the apparatus,

an operation of the apparatus if the parameter relates to operation of the
apparatus, and

an operation of the controller if the parameter relates to operation of the
controller;

wherein the server cannot initiate communication to the controller because the server cannot resolve a network address of the controller.

74. (Previously Presented) The method of claim 73, further comprising adjusting a time interval at which polling the server takes place.

75. (Previously Presented) The method of claim 73, wherein the server cannot resolve a network address of the controller because the server and the controller are on different networks.

76 and 77. (Cancelled)

78. (Previously Presented) The method of claim 73, wherein the first message and the second message comprise Hypertext Transfer Protocol commands.

79 to 83. (Cancelled)

84. (Currently Amended) A computer program stored on one or more machine-readable media, the computer program comprising instructions code that ~~are executed~~ is executable by a controller ~~that monitors and/or controls~~ configured to monitor and/or control an apparatus, the instructions code causing the controller to:

poll a server for messages periodically, wherein polling comprises initiating communication with the server by sending a first message to the server, the first message for identifying the apparatus and for establishing a connection between the server and the controller through which the instructions are sent;

receive a first reply message from the server in response to the first message, the first reply message identifying a parameter ~~associated with the apparatus~~; and

send a second message to the server in response to the first reply message, the second message containing the parameter identified in the first reply message;

receive a second reply message containing an updated version of the parameter; and
use the updated version of the parameter to affect at least one of:

a configuration of the apparatus if the parameter relates to the configuration of the apparatus,
an operation of the apparatus if the parameter relates to operation of the apparatus, and
an operation of the controller if the parameter relates to operation of the controller;

wherein the server cannot initiate communication to the controller because the server cannot resolve a network address of the controller.

85. (Currently Amended) The computer program of claim 84, further comprising instructions code to that cause the controller to adjust a time interval at which polling the server takes place.

86. (Previously Presented) The computer program of claim 84, wherein the server cannot resolve a network address of the controller because the server and the controller are on different networks.

87 and 88. (Cancelled)

89. (Previously Presented) The computer program of claim 84, wherein the first message and the second message comprise Hypertext Transfer Protocol commands.

90 to 94. (Cancelled)

95. (Currently Amended) A device comprising:

a controller that monitors and/or controls an apparatus, the controller executing
instructions code to:

poll a server for messages periodically, wherein polling comprises initiating communication with the server by sending a first message to the server, the first message for identifying the apparatus and for establishing a connection between the server and the controller through which the instructions are sent;

receive a first reply message from the server in response to the first message, the first reply message identifying a parameter associated with the apparatus; and send a second message to the server in response to the first reply message, the second message containing the parameter identified in the first reply message;

receive a second reply message containing an updated version of the parameter;
and

use the updated version of the parameter to affect at least one of:

a configuration of the apparatus if the parameter relates to the configuration of the apparatus,

an operation of the apparatus if the parameter relates to operation of the apparatus, and

an operation of the controller if the parameter relates to operation of the controller;

wherein the server cannot initiate communication to the controller because the server cannot resolve a network address of the controller.

96. (Currently Amended) The device of claim 95, wherein the controller executes instructions code to adjust a time interval at which polling the server takes place.

97. (Previously Presented) The device of claim 95, wherein the server cannot resolve a network address of the controller because the server and the controller are on different networks.

98 and 99. (Cancelled)

100. (Previously Presented) The device of claim 95, wherein the first message and the second message comprise Hypertext Transfer Protocol commands.

101 to 106. (Cancelled)